



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/658,770	09/10/2003	Changhwe Choi	2557-000108/US	3911
30593 75	90 05/02/2006		EXAMINER	
HARNESS, DICKEY & PIERCE, P.L.C.			FATAHI YAR, MAHMOUD	
P.O. BOX 8910 RESTON, VA			ART UNIT PAPER NUMBER	
•			2629	

DATE MAILED: 05/02/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
Office Assistant Communication	10/658,770	CHOI ET AL.	i		
Office Action Summary	Examiner	Art Unit			
	Mike Fatahiyar	2629	:		
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet v	vith the correspondence address -			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUN 16(a). In no event, however, may a ill apply and will expire SIX (6) MC cause the application to become A	ICATION. I reply be timely filed INTHS from the mailing date of this communical ABANDONED (35 U.S.C. § 133).	:		
Status					
1) Responsive to communication(s) filed on 29 Ja	nuary 2004.				
2a) ☐ This action is FINAL . 2b) ☑ This	action is non-final.	•	1		
3) Since this application is in condition for allowan	ce except for formal ma	tters, prosecution as to the merits	is		
closed in accordance with the practice under E	x parte Quayle, 1935 C.	D. 11, 453 O.G. 213.	•		
Disposition of Claims			,		
·	;	:			
4) Claim(s) <u>1-29</u> is/are pending in the application.	3	. '			
4a) Of the above claim(s) is/are withdraw	vn from consideration.	•			
5) Claim(s) is/are allowed.					
6) Claim(s) <u>1,8,9,11,13-15,22-24,28 and 29</u> is/are	•				
7) Claim(s) <u>2-7,10,12,16-21 and 25-27</u> is/are obje					
8) Claim(s) are subject to restriction and/or	election requirement.				
Application Papers					
9) The specification is objected to by the Examiner	·. ;				
10)⊠ The drawing(s) filed on <u>10 September 2003</u> is/are: a)⊠ accepted or b)☐ objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correcti	on is required if the drawing	g(s) is objected to. See 37 CFR 1.12	1(d).		
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attache	ed Office Action or form PTO-152	· !		
Priority under 35 U.S.C. § 119	6 0		:		
<u> </u>			į		
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:	priority under 35 U.S.C.	§ 119(a)-(d) or (f).	:		
1. Certified copies of the priority documents	have been received.				
2. Certified copies of the priority documents	have been received in a	Application No	•		
3. Copies of the certified copies of the prior	ity documents have bee	n received in this National Stage	:		
application from the International Bureau	(PCT Rule 17.2(a)).				
* See the attached detailed Office action for a list of	of the certified copies no	t received.	;		
Attachment(s)					
Attachment(s) 1) Notice of References Cited (PTO-892)	4) Interview	Summary (PTO-413)			
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No	(s)/Mail Date	!		
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	5) Notice of 6) Other:	Informal Patent Application (PTO-152)	•		

Application/Control Number: 10/658,770 Page 2

Art Unit: 2629

DETAILED ACTION

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims 1, 8-9, 11, 13-15, 22-24 and 28-29 are rejected under 35 U.S.C. 102(e) as being anticipated by Jeong et al(6,717,468B1).

Jeong et al disclose a high slew rate amplifying circuit for a TFT-type of LCD system comprising an LCD panel(100), a plurality of source drivers(130) connected to the panel, each of the source drivers including an output buffer; each output buffer including an operational amplifier(see figure 4), a pull-up transistor(MO12), a pull-down transistor(MO11), a control circuit(MO4, MO7), a high-part amplifying sub-circuit(MO1, MO2, MO3, MO5), a low-part amplifying sub-circuit(MO6, MO8, MO9, MO10) wherein the low part and the high part amplifying circuits have voltage follower configuration including a plurality of transistors which all function as claimed.

- 3. Claims 2-7, 10, 12, 16-21 and 25-27 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Imai et al, Itakura et al, Akita et al, Tamagawa, Fukuo, Griffin,

:

Art Unit: 2629

Kim, Chung and Hector et al are made of record to show various types of output amplifier circuits for enhancing slew rate of the amplifier output signal.

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mike Fatahiyar whose telephone number is (571)272-7688. The examiner can normally be reached on Monday-Friday from 9:30 to 6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard Hierpe, can be reached on 571-272-7691. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

M. Fatahiyar

April 29, 2006

RICHARD HJERPE SUPERVISORY PATENT EXAMINER

TECHNOLOGY OF MIER 2600